

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

Michael Thaler, ADA

Norfolk County District Attorney's Office
By e-mail

September 14, 2011

Re: Comm. v. [REDACTED] State Lab nos. [REDACTED]

ADA Thaler,

Please find below a discovery package for the case noted above. The material is collated in the following manner:

- 1) the c.v.'s of the chemists
- 2) the Evidence Office receipt to the Milton Police
- 3) the inventory control cards
- 4) the Pharmaceutical Analysis sheets
- 5) the pharmacopeia pages (Micromedex)
- 6) the gas chromatography/mass spectrometry (gc/ms) data

I was the custodial chemist responsible for the chain of custody, weights and the preliminary analysis of the exhibit. Annie Dookhan operated the gc/ms for the confirmatory analysis.

If you need further clarification of this material, call me directly at (617) 983-6627.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Lawler".

Michael Lawler
Senior Chemist

Cc: A. Dookhan

Curriculum Vitae

Michael Lawler

Education:

University of Virginia, Charlottesville, Va. Bachelor of Arts in English, 1975

Harvard University, Cambridge, Ma. Master of Arts in biology, 1995

Experience:

1990-present currently Chemist III, Mass. Dept. of Public Health, Drug Lab analyst determining the identity of unknown substances and providing expert testimony in the Courts. Conduct special testing for poisons within drug exhibits. Lab Safety Officer.

2005-2008 lecturer in chemistry, Curry College, Milton, Ma.

1988-1990 New England Newborn Screening (NENS) Biochemist conducting pilot studies and validation trials of new newborn screening tests. Investigator and co-author of papers noted below. Introduced screening test for Biotinidase Deficiency. Liaison with interstate collaborators in national studies.

1983-1988 Supervised NENS urine screening lab for metabolic disorders. Conducted research in collaboration with Children's Hospital (Boston) detecting neuroblastoma, a cancer of early childhood. Conducted reference testing for rare metabolic disorders for an international audience.

1982-1983 NENS hypothyroid assay technologist with Tuft's University

1979-1981 Mass. Bay Community College, staff technologist preparing materials for the laboratory technician program, which included reagents, apparatus and maintaining stock cultures of human pathogens.

Additional education and special training

Drug Analysis, completed six week training course by senior staff within the Department of Public Health Drug Analysis Laboratory

National Laboratory Network Training Program course as Expert Witness

Qualified as an expert witness in the Massachusetts Courts and the U.S. District Court

Current Drug Trends – Multijurisdictional Drug Task Force Academy

CDC course in antibiotic resistance CDC course in cell culture

CDC course in public health response to bioterrorism

U.S. Army course in biologic warfare and terrorism

Journal Publications

Screening, 1992, 1:34-37; Lawler,M., Frederick,S., Rodriguez-Anza, S., Wolf,B., Levy,H., *Newborn Screening for Biotinidase Deficiency, Pilot Study and Follow-up of Identified Cases*

Genetic Screening, 1990, 11-18, Mitchell,M., Lawler,M., Walraven,C., Hermos,R., *To Screen or Not to Screen for Congenital Hyperplasia: Is that the Question?*

The Journal of Pediatrics, 116: 78-83, Secor-McVoy,J., Lawler,M., Schmidt, M., Ebers,D., Hart,P., Pettit,D., Blitzer,M., Wolf,B., *Partial Biotinidase Deficiency: Clinical and Biochemical Features*

Professional Affiliations

Northeastern Association of Forensic Scientists (NEAFS) since 2005

Awards

Theobald Smith Education Grant for graduate studies

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of all analytical instruments.
- *Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- *Responsible for the Quality Control/Quality Assurance program for the drug lab.
- *Notary Public.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- *Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)
GLP/GMP course with Massachusetts Biologic Laboratory.
QC/QA training according to FDA Codes and Regulations.
GC and GC/MS courses with Agilent Technologies and Restek.
HPLC course with Waters Cooperation.
FTIR course with Spectros.
TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

*The Commonwealth of Massachusetts**Executive Office of Health and Human Services**Department of Public Health**State Laboratory Institute*

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

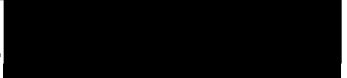
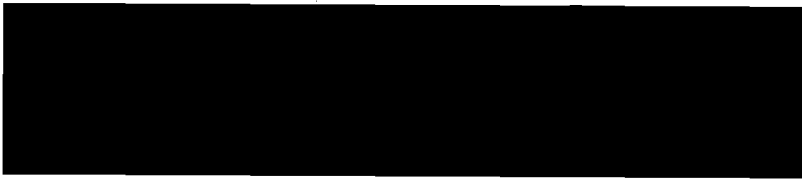
8:00 – 11:00

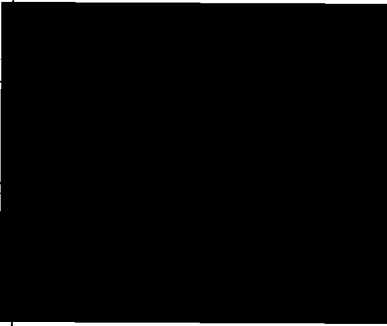
2:00 – 4:00


Amherst Hours

9:00 – 12:00

1:00 – 3:00

DRUG RECEIPTCity or Department: Milton Police Reference No.: Name and Rank of Submitting Officer: Det Pamela DiGiovanniDefendant(s) Name (last, first, initial):
*To be completed by Submitter***Description of Items Submitted***To be completed by Lab Personnel***Gross Weight****Lab Number**

25 light blue pills marked w H and 130.	5.23 gm	
8 1/2 purple pills marked w/ $\frac{A}{215}$	3.08 gm	
6 blue pills marked w $48/12 \frac{+}{\sqrt{}}$	2.68 gm	

Received by: Date: 5.4.11

NO. [REDACTED] DATE ANALYZED: 07-12-11
CITY: MILTON POLICE DEPT.
OFFICER: DETECTIVE PAMELA DIGIOVANNI

DEF: [REDACTED]
AMOUNT: 25 SUBST: TAB
NO. CONT: 1 CONT: PB

DATE REC'D: 05/04/2011 NO. ANALYZED:

GROSS WT: 5.230 NET WT: 3.15

#TESTS: 1 *mm*

11-68
PRELIM: *oxycodone* FINDINGS: *2 ASD*
oxycodone

NO. [REDACTED] DATE ANALYZED: 07-12-11
CITY: MILTON POLICE DEPT.
OFFICER: DETECTIVE PAMELA DIGIOVANNI

DEF: [REDACTED]
AMOUNT: 8 SUBST: TABLET/BRK
NO. CONT: 1 CONT: PB

DATE REC'D: 05/04/2011 NO. ANALYZED:

GROSS WT: 3.080 NET WT: 0.91g

#TESTS: 1 *mm*

PRELIM: *oxycodone* FINDINGS: *2 ASD*
oxycodone

NO. [REDACTED] DATE ANALYZED: 07-12-11
CITY: MILTON POLICE DEPT.
OFFICER: DETECTIVE PAMELA DIGIOVANNI

DEF: [REDACTED]
AMOUNT: 6 SUBST: TAB
NO. CONT: 1 CONT: PB

DATE REC'D: 05/04/2011 NO. ANALYZED:

GROSS WT: 2.680 NET WT: 0.61g

#TESTS: 1 *mm*

PRELIM: *oxycodone* FINDINGS: *2 ASD*
oxycodone

60711115
60711115

60711115
60711115

60711115
60711115

Sample # [redacted] City Milton E.O. weight 5.23
Count 25 tablets Description: oxycodone 30 blue 1 tab Melt → gr/ms
Ballistic I.D. oxycodone 30 (M) (30)
I.D. Source Micromedex
Final I.D. oxycodone MS chemist ASP completed 7-12-11

Sample # [redacted] City Milton E.O. weight 3.08g
Count 8 intact tab (2 1/2 tabs) Description: oxycodone 30 blue 1 tab → gr/ms
Ballistic I.D. oxycodone 30 (A) (215)
I.D. Source Micromedex
Final I.D. oxycodone MS chemist ASP completed 7-12-11

Pharmaceutical Analysis Sheet

11-61

Sample # [redacted] City Milton E.O. weight 2.68
Count 6 Description: oxycodone 30 blue 0.5 tablet Melt → gr/ms
Ballistic I.D. oxycodone 30 (48/12) (V)
I.D. Source Micromedex
Final I.D. oxycodone MS chemist ASP completed 7-12-11

Drug Information

DRUG NAME: OXYCODONE HYDROCHLORIDE

INGREDIENTS: OXYCODONE HYDROCHLORIDE -- 30 MG

Color: Light Blue

Shape: Circle

Imprint: M The M enclosed in a box is imprinted on one side and 30 above the score is imprinted on the reverse side. , M30 The M enclosed in a box is imprinted on one side and 30 above the score is imprinted on the reverse side. , 30 , M 30

Form: Oral Tablet

Available-Container-Size: Bottle of 100

AAPCC Code: 037705 - Oxycodone Alone or in Combination (Excluding Combination Products with Acetaminophen or Acetylsalicylic Acid)

NDC: 0406-8530-01

Excipients: Cellulose, Microcrystalline ; Sodium Starch Glycolate ; Starch, Corn ; Lactose ; Stearic Acid ; FD&C Blue No. 2

Regulatory Status: Schedule II

Availability: United States

Product ID 6594281

Contact: Covidien Mallinckrodt

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Drug Information

DRUG NAME: OXYCODONE HYDROCHLORIDE

INGREDIENTS: OXYCODONE HYDROCHLORIDE -- 30 MG

Color: Blue

Shape: Circle

Imprint: A; 215

Form: Oral Tablet

Available-Container-Size: Bottle of 100, 10X10

AAPCC Code: 037705 - Oxycodone Alone or in Combination (Excluding Combination Products with Acetaminophen or Acetylsalicylic Acid)

NDC: 52152-0215-02
52152-0215-11

Excipients: Starch, Corn ; FD&C Blue No. 2 Aluminum Lake ; Lactose (Monohydrate) ; Cellulose, Microcrystalline ; Silicon Dioxide ; Sodium Starch Glycolate ; Stearic Acid

Regulatory Status: Schedule II

Availability: United States

Product ID 6527175

Contact: Actavis Totowa

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Drug Information

DRUG NAME: OXYCODONE HYDROCHLORIDE

INGREDIENTS: OXYCODONE HYDROCHLORIDE -- 30 MG

Color: Light Blue

Shape: Circle

Imprint: 4812 The tablet is debossed with 4812 on one side and V on the reverse side. , v

Form: Oral Tablet

Available-Container-Size: Bottle of 500 , Bottle of 100 , Bottle of 10 , Bottle of 1000

AAPCC Code: 037705 - Oxycodone Alone or in Combination (Excluding Combination Products with Acetaminophen or Acetylsalicylic Acid)

NDC: 00603-4992-28
00603-4992-21

UPC: 06034-99228

Excipients: FD&C Blue No. 1 Aluminum Lake ; Lactose (Monohydrate) ; Magnesium Stearate ; Cellulose, Microcrystalline ; Povidone ; Sodium Starch Glycolate ; Stearic Acid

Regulatory Status: Schedule II

Availability: United States

Product ID 7093498

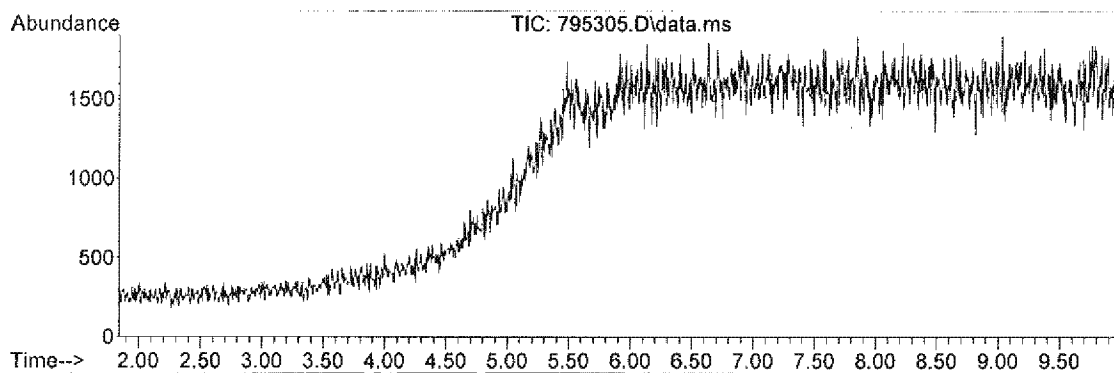
Contact: Qualitest Pharmaceuticals

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Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795305.D
Operator : ASD
Date Acquired : 11 Jul 2011 15:13
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

✓ ASD
09-12-11



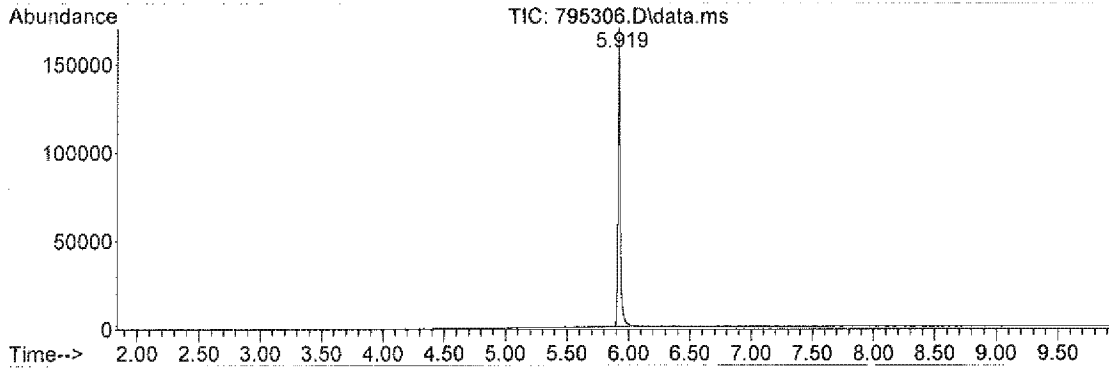
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795306.D
 Operator : ASD
 Date Acquired : 11 Jul 2011 15:26
 Sample Name : OXYCODONE STD
 Submitted by :
 Vial Number : 6
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

ASD



Ret. Time	Area	Area %	Ratio %
5.919	224773	100.00	100.00

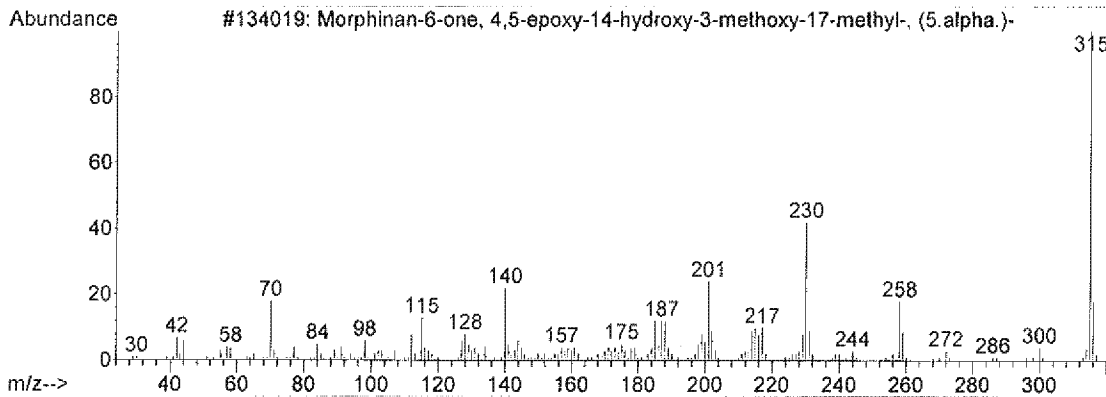
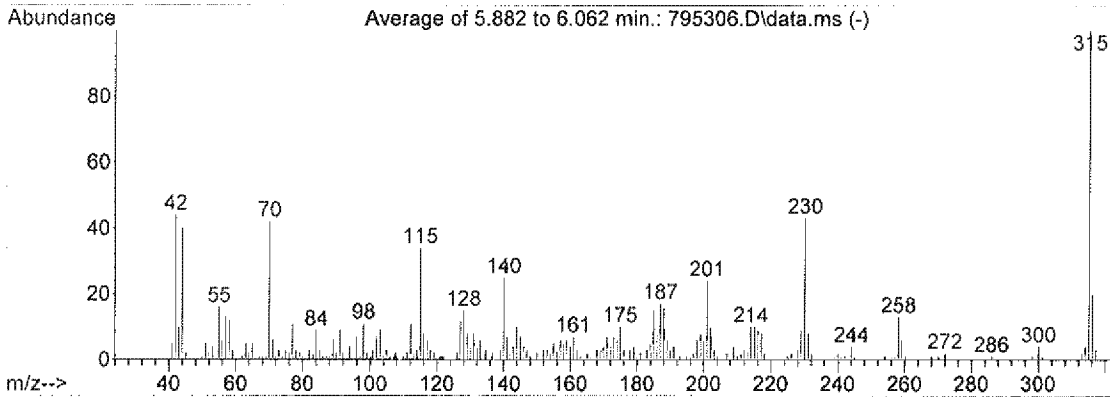
Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795306.D
Operator : ASD
Date Acquired : 11 Jul 2011 15:26
Sample Name : OXYCODONE STD
Submitted by :
Vial Number : 6
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

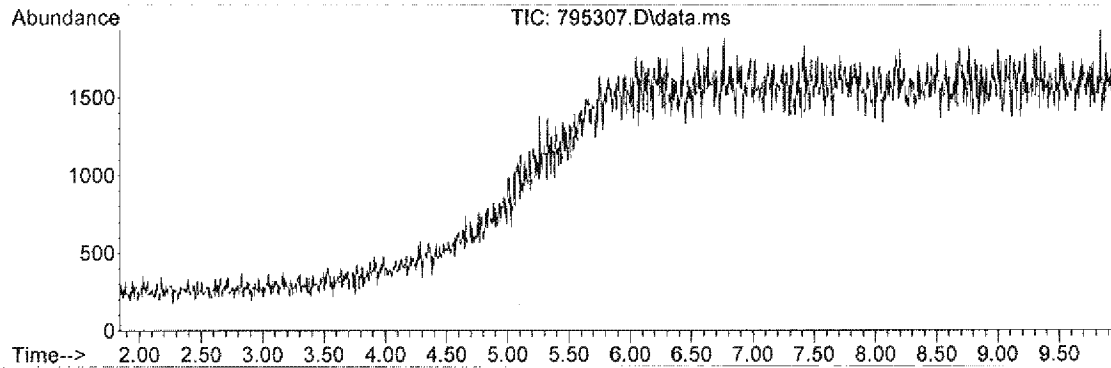
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		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99
		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99



Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795307.D
Operator : ASD
Date Acquired : 11 Jul 2011 15:39
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



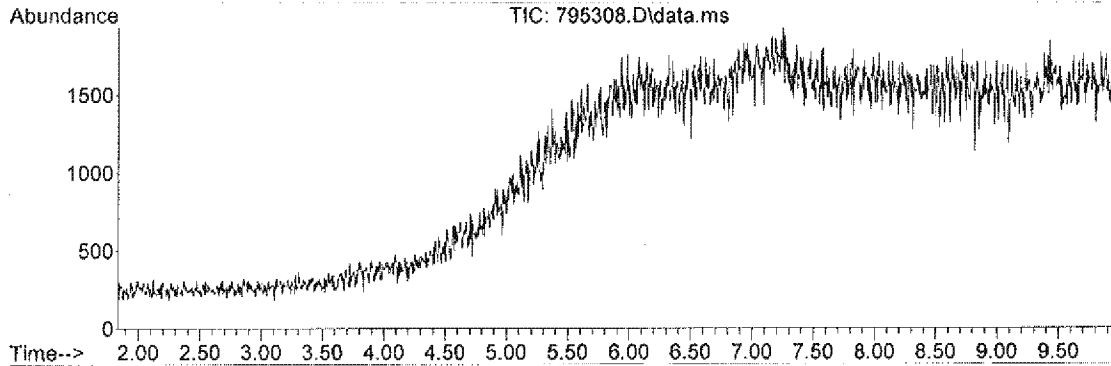
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

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File Name : C:\msdchem\1\System7\07_11_11\795308.D
Operator : ASD
Date Acquired : 11 Jul 2011 15:51
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



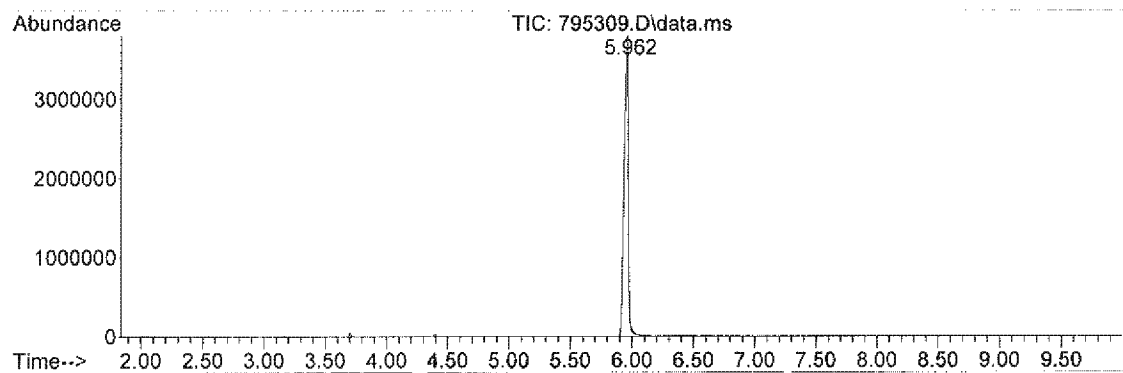
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

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Operator : ASD
Date Acquired : 11 Jul 2011 16:04
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



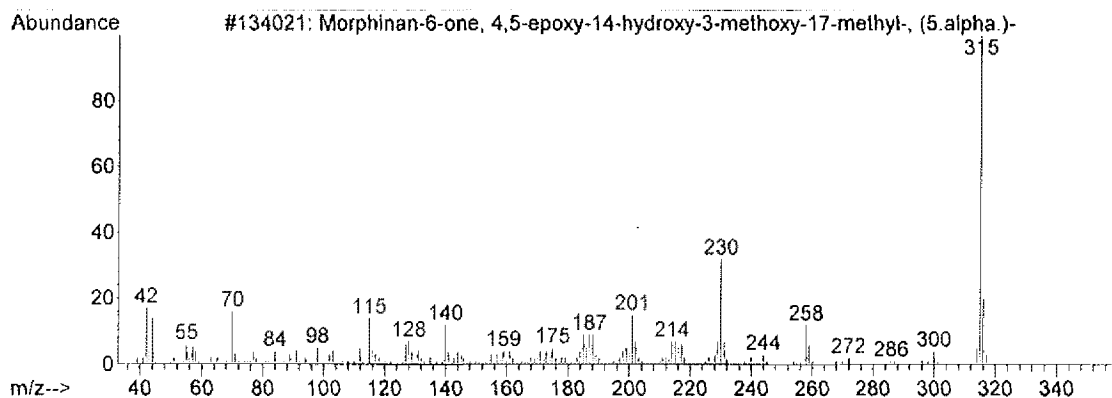
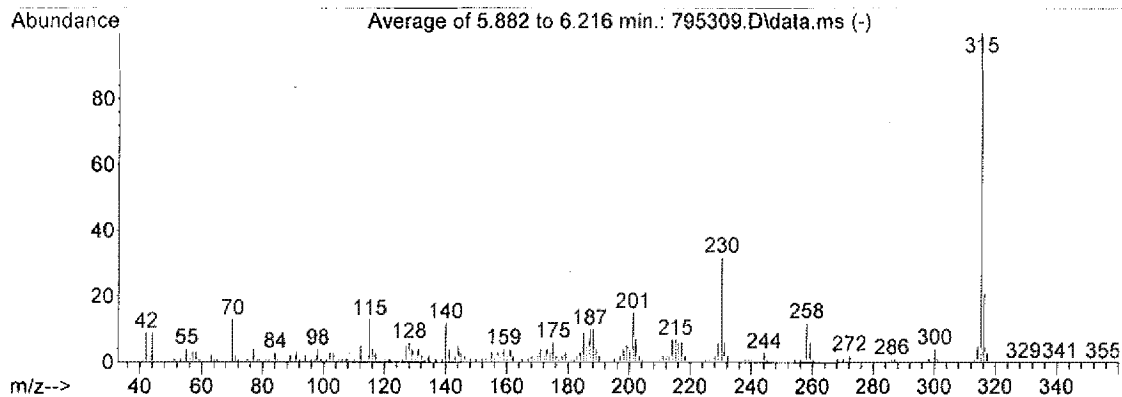
Ret. Time	Area	Area %	Ratio %
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Information from Data File:

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Operator : ASD
Date Acquired : 11 Jul 2011 16:04
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

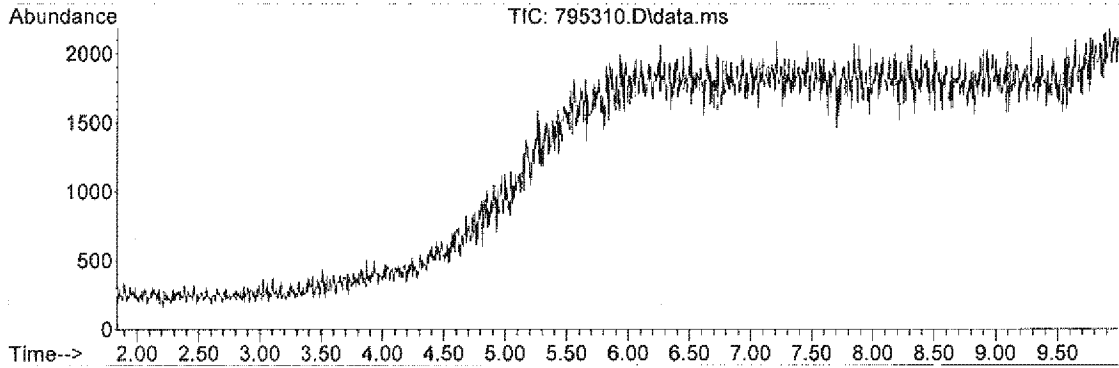
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		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99
		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99



Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795310.D
Operator : ASD
Date Acquired : 11 Jul 2011 16:17
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



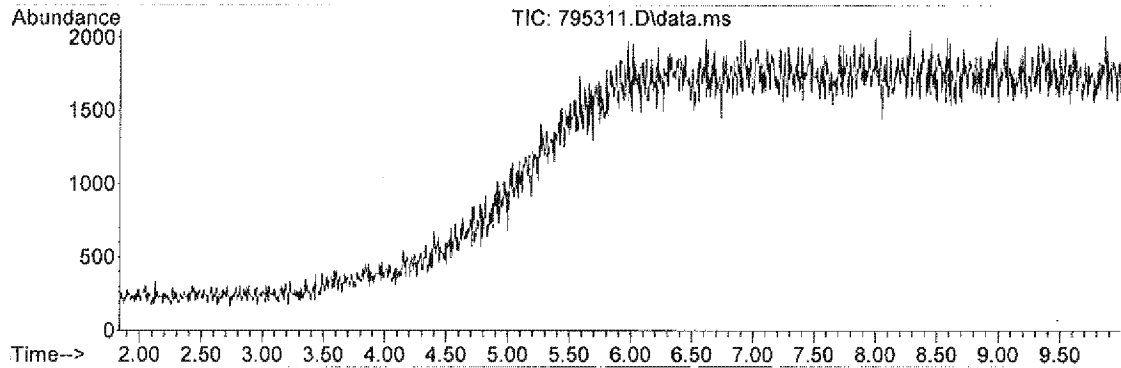
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

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Operator : ASD
Date Acquired : 11 Jul 2011 16:29
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



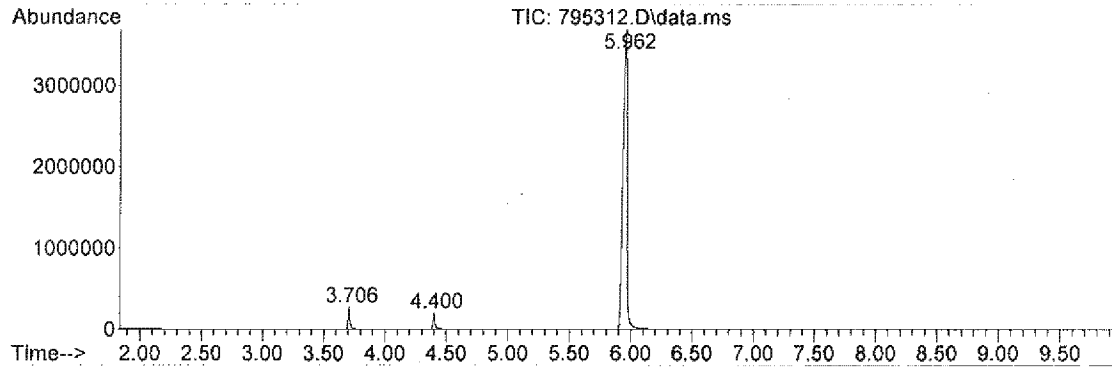
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

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 Operator : ASD
 Date Acquired : 11 Jul 2011 16:42
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 12
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

ASD



Ret. Time	Area	Area %	Ratio %
3.706	276192	2.95	3.12
4.400	240384	2.56	2.71
5.962	8861389	94.49	100.00

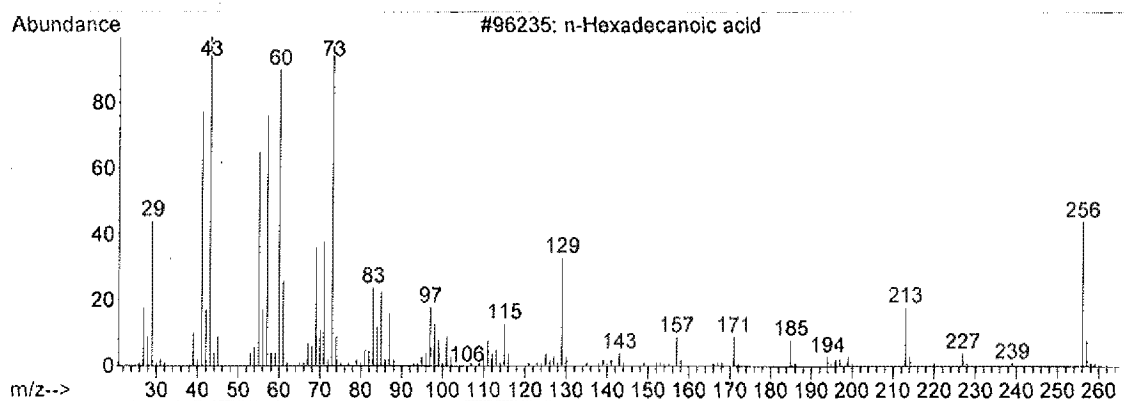
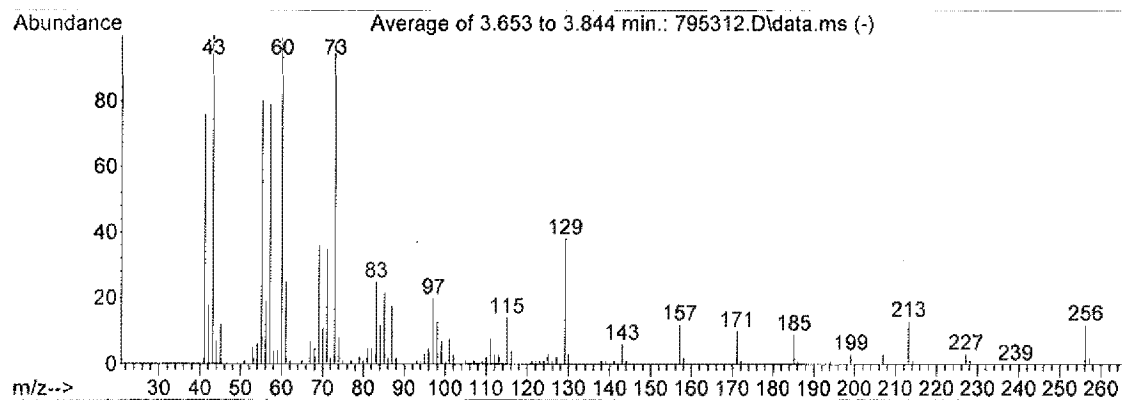
Information from Data File:

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Operator : ASD
Date Acquired : 11 Jul 2011 16:42
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 12
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
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		n-Hexadecanoic acid	000057-10-3	97
		Tetradecanoic acid	000544-63-8	94



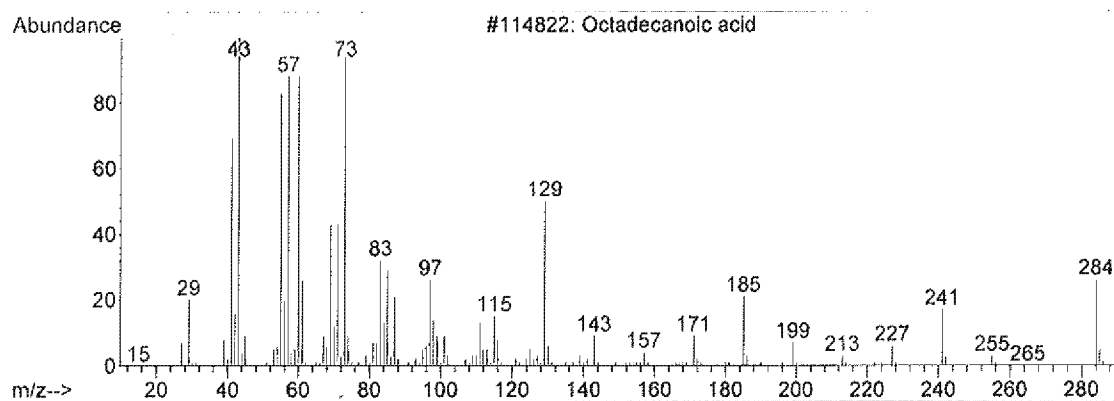
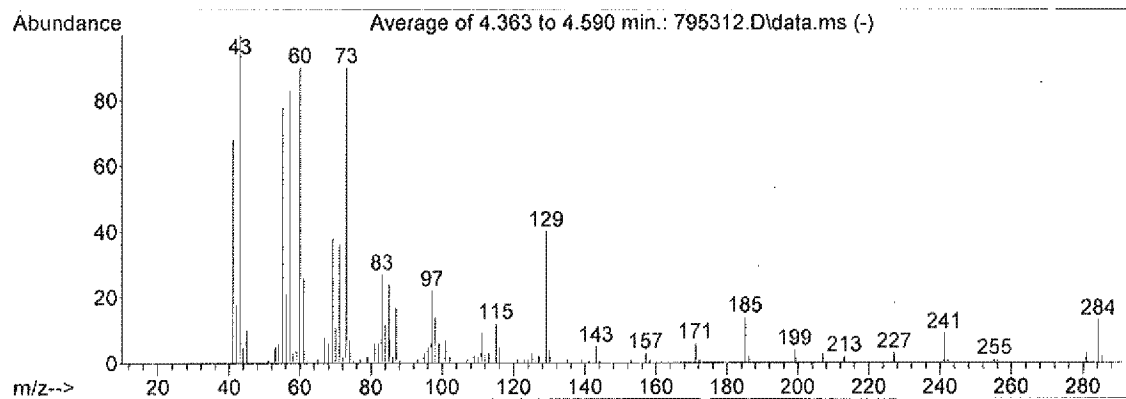
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Operator : ASD
Date Acquired : 11 Jul 2011 16:42
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 12
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

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		Octadecanoic acid	000057-11-4	95
		Octadecanoic acid	000057-11-4	95



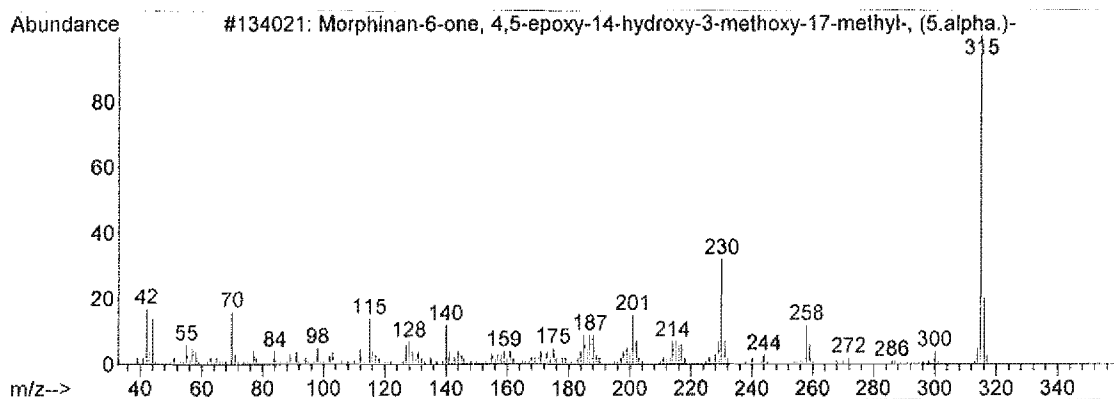
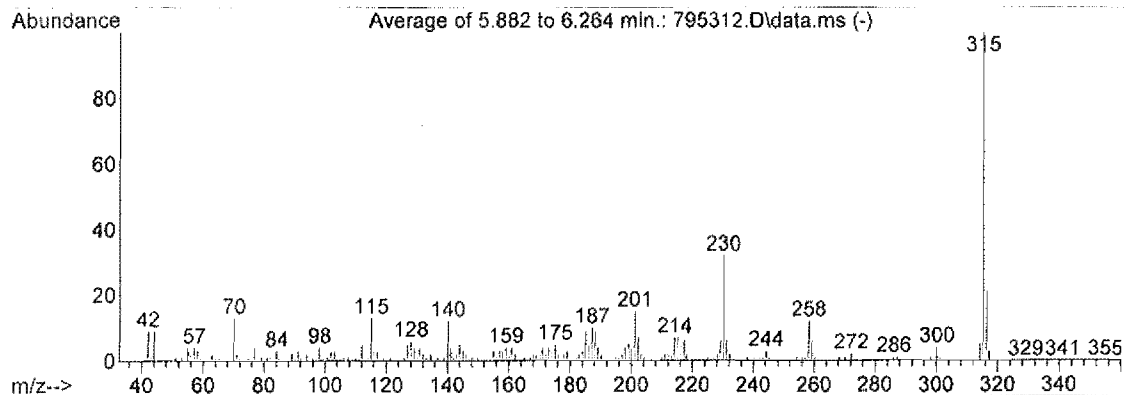
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File Name : C:\msdchem\1\System7\07_11_11\795312.D
Operator : ASD
Date Acquired : 11 Jul 2011 16:42
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 12
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

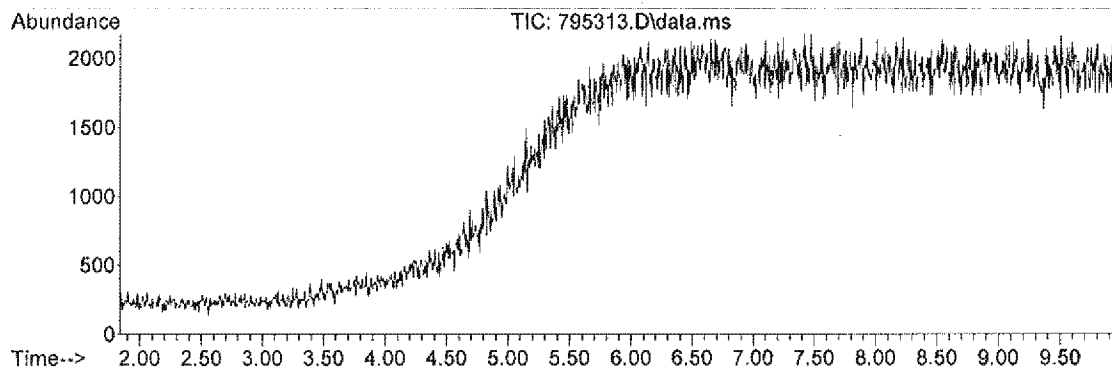
PK#	RT	Library/ID	CAS#	Qual
3	5.96	C:\Database\NIST05a.L		
		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99
		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99
		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99



Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795313.D
Operator : ASD
Date Acquired : 11 Jul 2011 16:54
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



Ret. Time	Area	Area %	Ratio %
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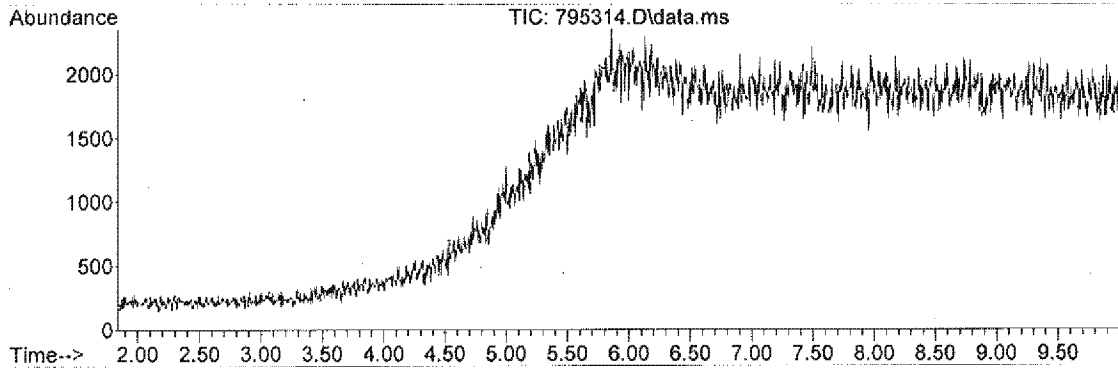
NO INTEGRATED PEAKS

Area Percent / Library Search Report

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Date Acquired : 11 Jul 2011 17:07
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



Ret. Time	Area	Area %	Ratio %
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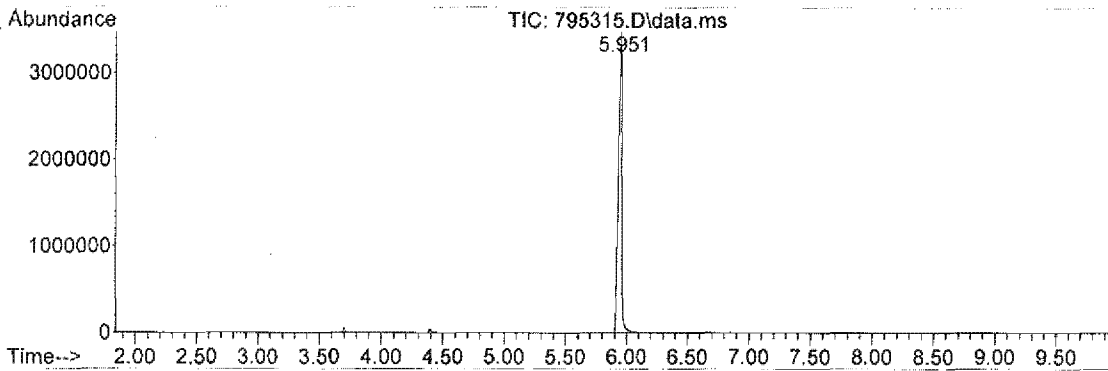
NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795315.D
Operator : ASD
Date Acquired : 11 Jul 2011 17:20
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 15
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



Ret. Time	Area	Area %	Ratio %
5.951	6891738	100.00	100.00

Area Percent / Library Search Report

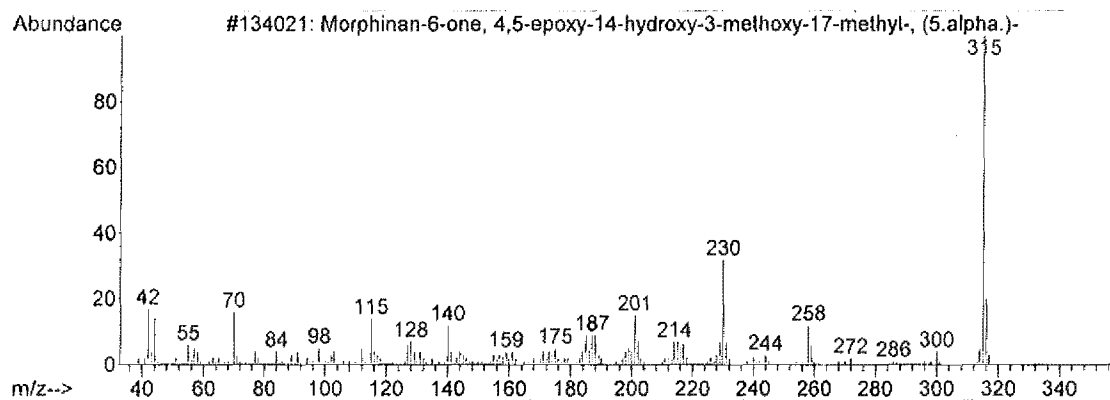
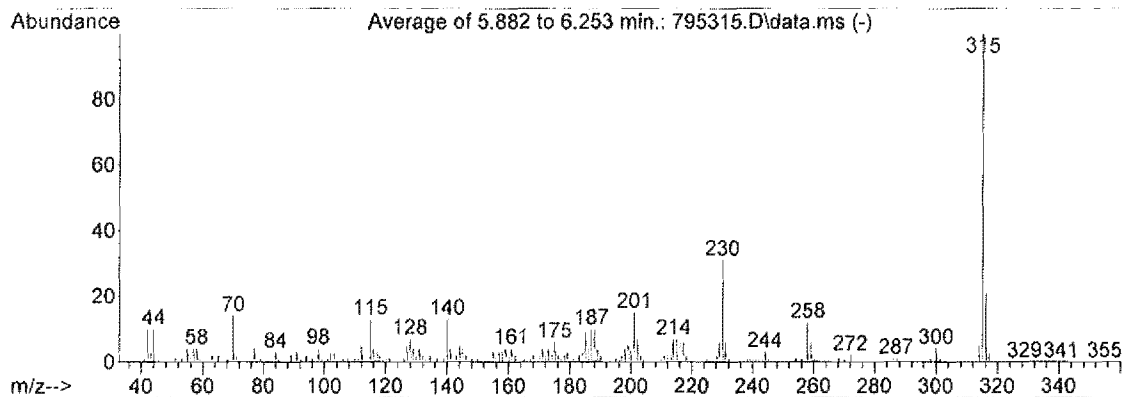
Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795315.D
 Operator : ASD
 Date Acquired : 11 Jul 2011 17:20
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 15
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

ASD

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	5.95	C:\Database\NIST05a.L		
		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99
		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99
		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99

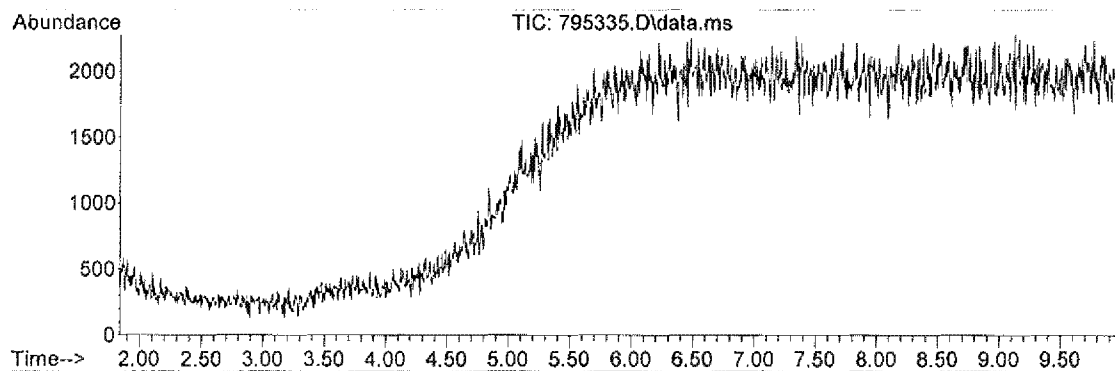


Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795335.D
 Operator : ASD
 Date Acquired : 11 Jul 2011 21:33
 Sample Name : BLANK
 Submitted by :
 Vial Number : 2
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

ASD



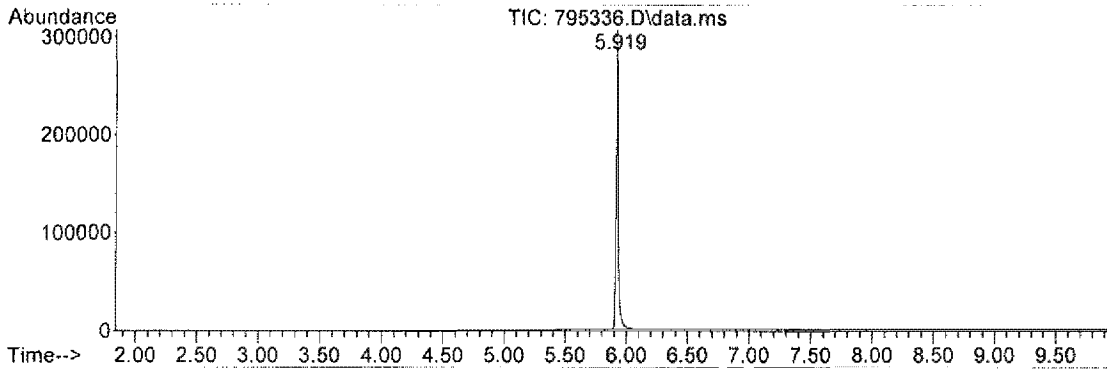
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795336.D
 Operator : ASD
 Date Acquired : 11 Jul 2011 21:46
 Sample Name : OXYCODONE STD
 Submitted by :
 Vial Number : 6
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

ASD



Ret. Time	Area	Area %	Ratio %
5.919	395356	100.00	100.00

Area Percent / Library Search Report

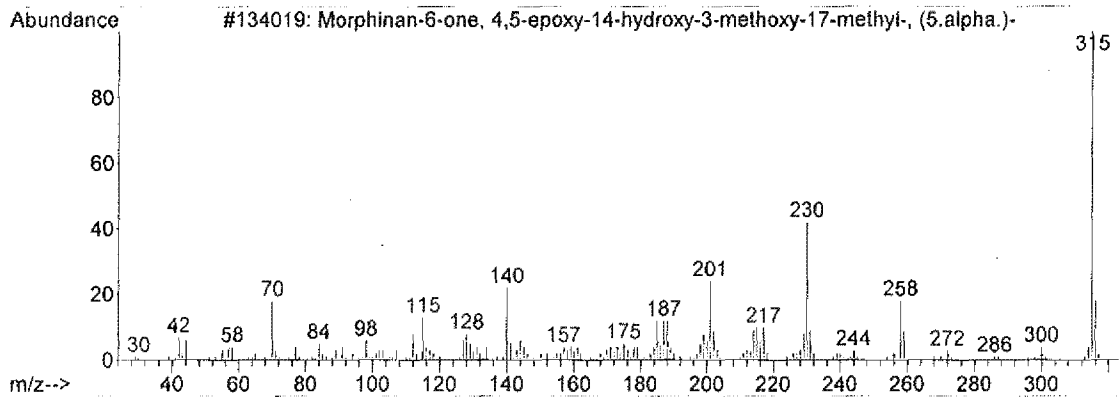
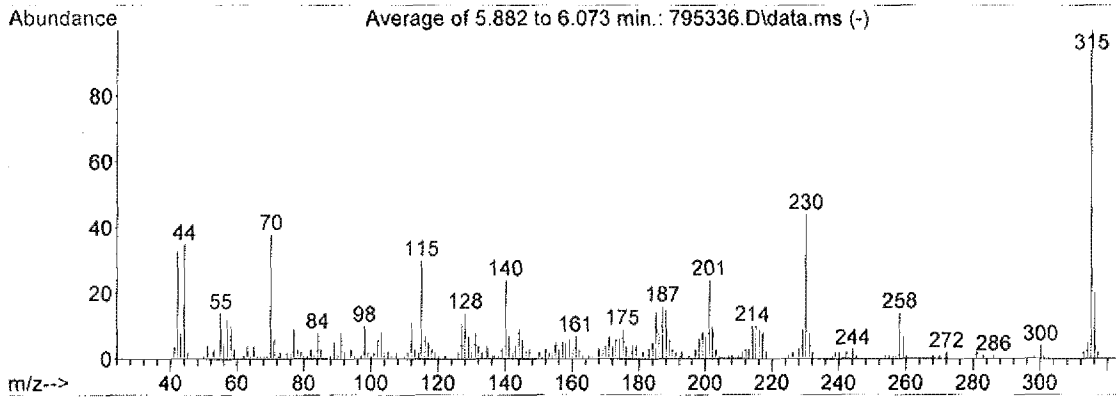
Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795336.D
 Operator : ASD
 Date Acquired : 11 Jul 2011 21:46
 Sample Name : OXYCODONE STD
 Submitted by :
 Vial Number : 6
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

ASD

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	5.92	C:\Database\NIST05a.L		
		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99
		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99
		Morphinan-6-one, 4,5-epoxy-14-hydro	000076-42-6	99

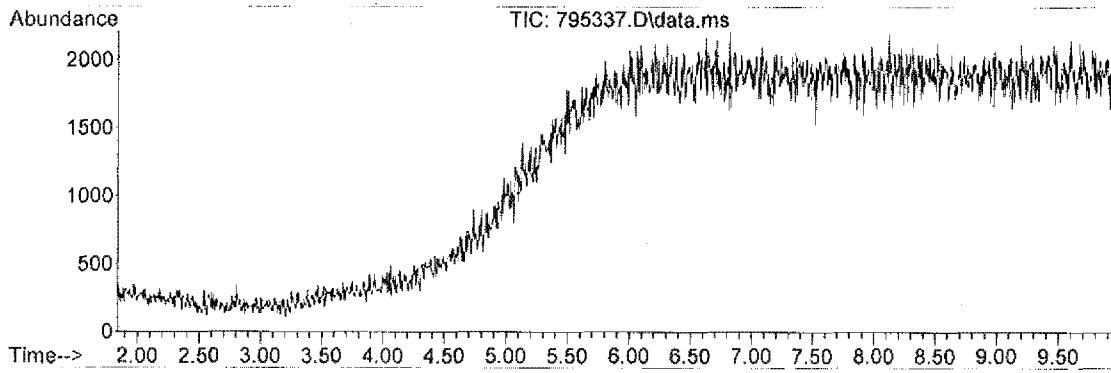


Area Percent / Library Search Report

Information from Data File:

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Operator : ASD
Date Acquired : 11 Jul 2011 21:58
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS